

**List of Faculties**  
**Tokyo Institute of Technology International Graduate Program (B)**  
**for applicants seeking scholarships from their home governments**  
**Commencing in September 2022**

**School of Materials and Chemical Technology**

**Dept. of Materials Science and Engineering**

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	FUJII, Toshiyuki	Crystallography of Microstructures		• Materials Science and Engineering
Professor	HAYAKAWA, Teruaki	Polymer Synthesis, Polymer Thin Films, Self-Organizing Organic and Polymeric Materials		• Materials Science and Engineering
Professor	HAYASHI, Miyuki	Thermophysical Properties of Materials, High Temperature Process Control		• Energy Science and Engineering • Materials Science and Engineering
Professor	HOSODA, Hideki	Materials Design, Shape Memory Alloys, Intermetallic Compounds		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering • Energy Science and Engineering
Professor	IKOMA, Toshiyuki	Bioceramics, Biosensing, Nanomedicine, Tissue Engineering		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Professor	INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation		• Materials Science and Engineering • Energy Science and Engineering
Professor	KAWAJI, Hitoshi	Physical Chemistry of Materials, Phase Transition		• Materials Science and Engineering
Professor	KIMURA, Yoshisato	Materials Design based on Phase Diagrams and Microstructure Control, Intermetallics, Thermoelectric Materials, Heat Resistant Alloys		• Energy Science and Engineering • Materials Science and Engineering
Professor	KOBAYASHI, Yoshinada	Metal Refining and Recycling, Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management		• Nuclear Engineering • Materials Science and Engineering
Professor	MAJIMA, Yutaka	Single Nanoscale Electronic Materials and Devices, Electroless Au Plating, Molecular Transistor, Single-Electron Transistor, Scanning Probe		• Materials Science and Engineering
Professor	MATSUMOTO, Hidetoshi	Functional Nanomaterials, Polymer Membranes and Thin Films, Energy-Related Materials		• Materials Science and Engineering • Energy Science and Engineering
Professor	MIYAUCHI, Masahiro	Photocatalysis, Artificial Photosynthesis, Green House Gas Conversion, Hydrogen Carrier, Chemical Synthesis of Nanoparticles		• Energy Science and Engineering • Materials Science and Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	MORIKAWA, Junko	Polymer Processing, Thermal Properties of Polymers		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> <li>Human Centered Science and Biomedical Engineering</li> </ul>
Professor	ONAKA, Susumu	Mechanical Properties of Materials		Materials Science and Engineering
Professor	OUCHI, Yukio	Physical Chemistry of Organic Materials, Surface and Interface of Soft-Materials, Electrochemistry of Ionic Liquids		Materials Science and Engineering
Professor	OUGIZAWA, Toshiaki	Physical Chemistry of Polymeric Materials		Materials Science and Engineering
Professor	SHI, Ji	Physical Properties of Metals, Magnetic Thin Films		<ul style="list-style-type: none"> <li>Energy Science and Engineering</li> <li>Materials Science and Engineering</li> </ul>
Professor	SONE, Masato	Material Fabrication and Evaluation for IC & MEMS		<ul style="list-style-type: none"> <li>Human Centered Science and Biomedical Engineering</li> <li>Materials Science and Engineering</li> </ul>
Professor	TADA, Eiji	Corrosion and Environmental Degradation of Materials		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> </ul>
Professor	VACHA, Martin	Optical Properties of Organic Materials		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> <li>Energy Science and Engineering</li> </ul>
Institute Professor	HOSONO, Hideo	Exploring novel electronic & photonic materials (Superconductor, Transparent-semiconductors, Fluorescent and Catalytic)		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> </ul>
Associate Professor	ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> </ul>
Associate Professor	CHANG, Tso-Fu Mark	Electrodeposition, Metal-based Catalyst, Metal/Metal Oxide Composite Photocatalyst, Metal/Polymer Flexible Functional Materials		<ul style="list-style-type: none"> <li>Human Centered Science and Biomedical Engineering</li> <li>Materials Science and Engineering</li> </ul>
Associate Professor	GOHDA, Yoshihiro	Electron Theory of Magnetic Materials and Surface Nanostructures		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> </ul>
Associate Professor	HAYAMIZU, Yuhei	Bio-interface, Nano Materials		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> <li>Human Centered Science and Biomedical Engineering</li> </ul>
Associate Professor	ISHIKAWA, Ken	Optical and Electrical Properties of Organic Materials		<ul style="list-style-type: none"> <li>Materials Science and Engineering</li> <li>Energy Science and Engineering</li> </ul>

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	KAWAMURA, Kenichi	High Temperature Physical Chemistry, Solid State Ionics		• Materials Science and Engineering
Associate Professor	KOBAYASHI, Equo	Physical Metallurgy of Non-ferrous Metals and Intermetallics, Design and Evaluation of Biomedical Materials		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	KOBAYASHI, Satoru	Phase diagrams and phase transformations in alloys, Physical metallurgy of ferrous alloys, Heat resistant steels and alloys		• Materials Science and Engineering
Associate Professor	MICHINOBU, Tsuyoshi	Polymer Synthesis, Semiconducting Polymers		• Materials Science and Engineering
Associate Professor	MURAISHI, Shinji	Micromechanics, Nanostructured Material, Crystal Defects		• Materials Science and Engineering
Associate Professor	NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steels		• Materials Science and Engineering
Associate Professor	NAKATSUJI, Kan	Surface and Interface Physics		• Materials Science and Engineering
Associate Professor	SAGARA, Yoshimitsu	Organic Supramolecules, Stimuli-responsive Luminescent Materials, Mechanophore		• Materials Science and Engineering
Associate Professor	SANNOMIYA, Takumi	Plasmonic Materials, Electron Microscopy		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering • Energy Science and Engineering
Associate Professor	SHIOYA, Masatoshi	Structure and Mechanical Properties of Carbon Materials, Fibers and Composite Materials		• Materials Science and Engineering
Associate Professor	TAHARA, Masaki	Functional metal material, Diffusionless phase transformation, Metallography, Biomedical Ti alloy		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials		• Materials Science and Engineering
Associate Professor	UEDA, Mitsutoshi	High Temperature Oxidation of Metals, Defect Chemistry in Oxides, Physical Chemistry at High Temperature		• Energy Science and Engineering • Materials Science and Engineering
Assistant Professor (Tenure Track)	YAMAGUCHI, Akira	electrocatalysts, hydrothermal electrochemistry		• Energy Science and Engineering • Materials Science and Engineering